

1 (Whereupon, end of in
2 camera proceedings.)
3 JUDGE HAYNES: I think we'll return to the
4 public record.
5 Did staff have cross for this witness?
6 MR. FOSCO: No, your Honor.
7 JUDGE HAYNES: Mr. Anderson, did you want to
8 move to admit your Cross Exhibit 47?
9 MR. ANDERSON: Yes, I did.
10 MR. CHORZEMPA: No objection.
11 MR. ANDERSON: I moved.
12 JUDGE HAYNES: It's admitted.
13 (Whereupon, SBC Cross
14 Exhibit No. 47 was admitted
15 into evidence.)
16 JUDGE HAYNES: Any redirect?
17 MR. CHORZEMPA: Yes, your Honor. We have a bit.
18 REDIRECT EXAMINATION
19 BY
20 MR. CHORZEMPA:
21 Q. Mr. Pitkin, you were asked some questions
22 by Mr. Anderson regarding an e-mail that you cited

1 to in your testimony in reliance on the fact that I
2 believe two sizes of digital loop carrier runs and
3 jams would produce similar results. Do you
4 remember those questions?

5 MR. BRIAN PITKIN: I do.

6 Q. And I want to ask you an open-ended
7 question. Why did you cite to that e-mail in your
8 footnote?

9 A. The intent of the e-mail from Ms. Hamill to
10 Mr. Anderson it read: Carl, the estimator report
11 provided by SBC indicates that there are no cost
12 differences between 672 DLC and 2016 DLC. Please
13 provide the underlying cost support.

14 And it goes on a little bit. This
15 entire purpose of this e-mail and why we cited it
16 was to confirm that when they actually estimated
17 the cost of the DLC systems, they don't vary by the
18 installation cost, don't vary by the size of the
19 system.

20 So how we use it in our testimony and
21 what we're referring to is about the relative cost
22 and the use that linear loading factors are not

1 appropriate because installation costs are not
2 directly proportional to material costs.

3 Q. Mr. Turner, you were asked a number of
4 questions regarding your experience and
5 qualifications. Do you remember those series of
6 questions from Mr. Anderson?

7 MR. STEVEN TURNER: Yes, I do.

8 Q. Mr. Turner, can you explain why you believe
9 you're qualified to provide your testimony here
10 today and, in particular, on the subjects of
11 outside plant cable and digital loop carrier
12 equipment?

13 MR. ANDERSON: I'm going to object. Beyond the
14 scope of my cross. I did not ask him questions --
15 an open-ended question. I asked him specific
16 questions about his involvement with outside plant
17 facilities.

18 Those were the scope of my questions.
19 And I don't believe --

20 MR. CHORZEMPA: My response is, I mean, the
21 intended questions was obvious. Of course, to ask
22 questions to somehow make it appear as of his

1 experience is limited. I'm just Mr. Turner to
2 state what experiences and qualifications he has in
3 regard to outside plant digital loop carrier
4 equipment, which Mr. Anderson did ask about.

5 JUDGE HAYNES: Overruled.

6 MR. STEVEN TURNER: I have a considerable amount
7 of experience in engineering outside plant
8 facilities, in particular the facilities that we
9 used to connected from -- when I was an engineer at
10 AT&T to connect from AT&T's wire center out to
11 enterprise business customers for DS-1, DS-3 and
12 high-speed loops.

13 Also, it involved the engineering and
14 planning of fiberoptic routes that would be used to
15 connect to digital loop carriers, which are a
16 significant part of the cost proceeding.

17 And then, finally, in a very much
18 related manner is the actual digital carrier
19 equipment itself which takes the analog copper
20 loops and converts those to a digital signal for
21 delivery back to the switch.

22 And so my responsibilities included

1 everything except this specific copper component
2 that I was asked about. But it includes everything
3 including fiberoptic facilities, digital carrier
4 equipment and the terminal equipment that would be
5 used for high-speed loops.

6 Q. Mr. Turner, you were also asked, I believe,
7 some questions -- in relation to questions asked
8 about your qualification, Mr. Anderson showed you
9 your testimony from an Indiana proceeding.

10 And although Mr. Anderson is the sole
11 keeper of that transcript right now, unfortunately,
12 hopefully I can ask the questions specific enough
13 that you will remember. I think we'll able to do
14 it since we had our bathroom break.

15 You were asked -- you were shown some
16 questions and answers you gave in Indiana. In
17 relation to the first question and answer I think
18 Mr. Anderson gave you, you indicated there was a
19 difference in the question that was posed in
20 Indiana and the question you believe Mr. Anderson
21 is posing here.

22 Can you explain the difference in your

1 mind between those two questions.

2 MR. STEVEN TURNER: Yes. Mr. Anderson asked me
3 the question as to whether or not -- as I recall
4 it, as to whether or not I had any experience in
5 the area of engineering, outside plant facilities.
6 And then when I said "yes," he proceeded to go to
7 the transcript which asked me the question as to
8 whether or not I had experience with the
9 installation, to which I answered "no," but then
10 gave a lengthy explanation of everything that I was
11 responsible for in that job of planning and
12 engineering outside plant facilities.

13 I had personnel that reported to me that
14 were then also responsible for installation. But
15 because of the timing of the projects and where we
16 were at AT&T's local entry initiative, we did not
17 get to the installation phase in that work while I
18 was still an employee of AT&T.

19 Q. And one last question. You remember
20 Mr. Anderson asking you some questions made by a
21 Joe Nachio of Quest. Do you remember that?

22 MR. STEVEN TURNER: Yes.

1 Q. And during the course of those questions, I
2 believe you asked Mr. Anderson to explain whether
3 or not he was referring to copper loop or copper
4 loop equipment. Can you explain the distinction
5 that you were trying to make there?

6 MR. STEVEN TURNER: My concern was that when
7 Mr. Anderson was asking about copper loop
8 equipment, that he might be including in his
9 definition, which he refused to clarify, but
10 whether he might be thinking that that would
11 include digital loop carrier electronics that would
12 be attached to a copper loop.

13 And I didn't want the interpretation of
14 our answers to be extended to including copper loop
15 electronics equipment. Our answers that the quote
16 did not relate to copper was just for the copper
17 itself, but the quote did specifically address
18 copper loop electronics.

19 MR. CHORZEMPA: I have nothing further, your
20 Honor.

21 JUDGE HAYNES: Recross.

22 MR. ANDERSON: I have nothing further.

1 JUDGE HAYNES: Thank you.

2 We have to take a quick break.

3 (Whereupon, a brief

4 recess was taken.)

5 JUDGE HAYNES: Okay. Let's go back on the
6 record.

7 Mr. Townsley, would you like to call
8 your witnesses?

9 MR. TOWNSLEY: Yes, your Honor. On behalf of
10 WorldCom, Inc., doing business as MCI and a host of
11 other CLECs, the joint that I will refer to is the
12 joint CLECs, we would like to call August H. Ankum
13 and Sidney L. Morrison to the stand.

14 JUDGE HAYNES: I need to swear you in. Please
15 raise your right hand.

16 (Witness sworn.)

17 JUDGE HAYNES: Thank you.

18 AUGUST H. ANKUM, Ph.D.,

19 SIDNEY L. MORRISON,

20 having been called as a witness herein, after
21 having been first duly sworn, was examined and
22 testified as follows:

1 DIRECT EXAMINATION

2 BY

3 MR. TOWNSLEY:

4 Q. Dr. Ankum, would you please state your full
5 name and business address for the record, please.

6 DR. AUGUST ANKUM: My name is August H. Ankum,
7 1261 North Paulina, No. 8, Chicago, Illinois 60622.

8 Q. Mr. Morrison, would you please state your
9 full name and business address for the record.

10 MR. SIDNEY MORRISON: Yes. I'm Sidney L.
11 Morrison, 415 Planters Leafy Drive, Sunset Beach,
12 North Carolina 28468.

13 MR. TOWNSLEY: Your Honor, Dr. Ankum and
14 Mr. Morrison are going to be sponsoring two pieces
15 of testimony in this proceeding.

16 What I have marked as Joint CLEC
17 Exhibit 1.0 is the direct testimony of August Ankum
18 and Sidney Morrison. There is a public and a
19 proprietary version of that testimony, and there
20 are four attachments to the testimony. Only
21 attachment number 3 is proprietary.

22 Mr. Morrison and Dr. Ankum are also

1 going to be sponsoring what has been labeled
2 surrebuttal testimony. It is marked as Joint CLEC
3 Exhibit 1.1. there are no attachments to that
4 testimony, and the testimony is public.

5 Dr. Ankum also is sponsoring two pieces
6 of testimony on his own. The direct testimony of
7 Dr. Ankum has been marked as Joint CLEC
8 Exhibit 3.0. There is both a public and a
9 proprietary version of that testimony. There are
10 two attachments to that testimony, both of which
11 are public.

12 Dr. Ankum is also sponsoring surrebuttal
13 testimony on his own. That has been marked as
14 Joint CLEC Exhibit 3.1. there are four attachments
15 to that testimony. They are all public, and the
16 testimony itself is public.

17 It's my understanding we're disposing
18 with the direct examination of the witnesses. And
19 at this time, you Honor, I would move for the
20 admission of Joint CLEC Exhibit 1.0, 1.0-P, Joint
21 CLEC Exhibit 1.1, Joint CLEC Exhibit 3.0, and Joint
22 CLEC Exhibit 3.1.

1 JUDGE HAYNES: Any objection?

2 MR. SULLIVAN: No objection.

3 JUDGE HAYNES: Those exhibits are admitted.

4 (Whereupon, Joint CLEC

5 Exhibit Nos. 1.0, 1.0-P, 1.1,

6 3.0, and 3.1 were admitted

7 into evidence.)

8 JUDGE HAYNES: Cross?

9 MR. SULLIVAN: Thank you, your Honor.

10 CROSS-EXAMINATION

11 BY

12 MR. SULLIVAN:

13 Q. Good afternoon, Dr. Ankum. Good afternoon,

14 Mr. Morrison.

15 DR. AUGUST ANKUM: Good afternoon.

16 MR. SIDNEY MORRISON: Good afternoon.

17 Q. I am going to, in some instances, direct my

18 question to one of you. And other instances, I

19 will leave it open-ended and whoever feels like

20 answering can answer.

21 Dr. Ankum, you're an economist; correct?

22 DR. AUGUST ANKUM: Yes.

1 Q. And you're not a telecommunications network
2 engineer?

3 DR. AUGUST ANKUM: That's correct.

4 Q. You've never worked in a central office or
5 out in the field doing installation, repair or
6 maintenance work for telecommunications equipment?

7 DR. AUGUST ANKUM: I have not.

8 Q. Dr. Ankum, you were hired by WorldCom and
9 other CLECs, the Joint CLECs, to testify here on
10 their behalf; is that correct?

11 DR. AUGUST ANKUM: Yes.

12 Q. You were not retained by AT&T; correct?

13 DR. AUGUST ANKUM: That's correct.

14 Q. And are you being paid for your appearance
15 here?

16 DR. AUGUST ANKUM: Yes, I am.

17 Q. Are you being paid on an hourly basis?

18 DR. AUGUST ANKUM: Yes.

19 Q. And what is the hourly rate that you're
20 charging the Joint CLECs?

21 DR. AUGUST ANKUM: I believe 280.

22 Q. Are you being compensated by the Joint

1 CLECs in any other way for appearing here?

2 DR. AUGUST ANKUM: I don't believe so.

3 Q. Mr. Morrison, you're not an economist;

4 correct?

5 MR. SIDNEY MORRISON: That's correct.

6 Q. Your experience that you bring to your

7 testimony is your experience working with telephone

8 companies?

9 MR. SIDNEY MORRISON: That's correct.

10 Q. And you've been retained by the same

11 parties as Dr. Ankum?

12 MR. SIDNEY MORRISON: Yes.

13 Q. And are you being paid for your time here?

14 MR. SIDNEY MORRISON: Yes.

15 Q. And what are you being paid?

16 MR. SIDNEY MORRISON: I believe about 225.

17 Q. Mr. Morrison, are you being compensated in

18 any other manner other than the hourly rate you're

19 charging the Joint CLECs?

20 MR. SIDNEY MORRISON: No, I'm not.

21 Q. Well, to save the Joint CLECs some money,

22 I'll try keep my cross-examination brief.

1 MR. TOWNSLEY: Thank you, Mr. Sullivan.

2 MR. SULLIVAN: Always looking out for your
3 interest, Darryl.

4 BY MR. SULLIVAN:

5 Q. If you could turn to Page 28 of the direct
6 testimony. And all my questions, gentlemen, are
7 going to be referring to your joint testimony.

8 If you could both turn to Page 28, and
9 I'll throw this to either of you. On Line 718, who
10 is the "I" that you're referring to?

11 DR. AUGUST ANKUM: That would be me. The
12 principal above there pertain to the TELRIC
13 principals as I believe that are found in the FCC's
14 local competition order.

15 Q. And, Mr. Morrison, you're essentially
16 deferring to Dr. Ankum for that part of his
17 testimony of what TELRIC requires and does not
18 require; is that right?

19 MR. SIDNEY MORRISON: That would be right.

20 Q. Okay. Now, at several points in your
21 testimony, you discuss time and motion studies.
22 And in several instances, you suggest that SBC

1 ought to conduct time and motion studies; is that
2 correct?

3 DR. AUGUST ANKUM: Yes, among the corrections
4 and recommendations.

5 Q. For instance, at Page 39 of your direct
6 testimony at Lines 961 and 962, you recommend that
7 the SBC estimates be validated by time and motion
8 studies; is that correct?

9 DR. AUGUST ANKUM: Yes.

10 Q. And that's a recommendation that you
11 gentlemen made in your direct testimony, which was
12 filed in May 6, 2003?

13 DR. AUGUST ANKUM: I believe that's the
14 testimony that you're referring to already on that
15 Page 39, right?

16 Q. In the time since you filed that testimony
17 in May of 2003, have either of you conducted time
18 and motion studies to validate any of the activity
19 times at issue in this case?

20 DR. AUGUST ANKUM: I have not.

21 MR. SIDNEY MORRISON: And I have not.

22 Q. Mr. Morrison, you have performed time and

1 motion studies in the past, is that correct?

2 MR. SIDNEY MORRISON: That's correct.

3 Q. And if I recall correctly, most of the work
4 you've done with time and motion studies was from a
5 period during the late '90s and early '80s; is that
6 correct?

7 MR. SIDNEY MORRISON: Yes. Most of it we've
8 done between roughly 1979, 1983, '84. And then
9 another period of time between about -- within 1999
10 and 2000.

11 Q. And the work -- we met in Indiana. I
12 believe you testified that you did some time and
13 motion studies in the late 1990s. Is that the same
14 stuff you're referring to?

15 MR. SIDNEY MORRISON: Yes.

16 Q. And that was work that you did while you
17 were working in Switzerland; is that correct?

18 MR. SIDNEY MORRISON: That's correct.

19 Q. Did you -- Mr. Morrison, did you rely on
20 those time and motion studies in putting together
21 your testimony in this case?

22 MR. SIDNEY MORRISON: No, I did not.

1 Q. And you didn't produce any documents to SBC
2 relating to those time and motion studies; is that
3 right?

4 MR. SIDNEY MORRISON: No. Uhn-uhn.

5 Q. If I could direct -- Mr. Morrison, if I
6 could direct your attention to Page 53 at
7 Lines 1304, beginning at Line 1304.

8 There you suggest that SBC could engage
9 in independent third-party to audit and verify the
10 results obtained by its cost models; is that
11 correct?

12 MR. SIDNEY MORRISON: That's correct.

13 Q. Now -- and I'll ask this of both of you.

14 Did either of you or anyone acting on
15 your behalf engage a third party to audit and
16 verify the results that are contained in SBC's cost
17 models?

18 DR. AUGUST ANKUM: We audited the results, but
19 we have not subcontracted out any of that activity.

20 JUDGE HAYNES: Mr. Ankum, you're going to have
21 speak into the microphone.

22 MR. SIDNEY MORRISON: Want me to repeat what I

1 said?

2 JUDGE HAYNES: Did the court reporter get it?

3 THE COURT REPORTER: Yes. Thank you.

4 BY MR. SULLIVAN:

5 Q. Dr. Ankum, the audit that you just referred
6 to, is that the same type of independent third
7 party audit that you gentlemen are referring to in
8 your testimony there, or is there a different
9 meaning to the term audit?

10 DR. AUGUST ANKUM: What we're suggesting here is
11 that SBC would engage in a third-party, independent
12 party, to do time and motion studies or validation
13 of the time estimates. And, of course --

14 Q. If we can focus on the word audit there, is
15 that the same type of audit that you just referred
16 to when you stated that you and Mr. Morrison have
17 performed an audit? Or are you envisioning some
18 different type of audit process?

19 DR. AUGUST ANKUM: The audit process that we're
20 envisioning here would be more extensive. It would
21 involve the observing of all the activities, not in
22 the manner that Ms. Gomez McKean did, which is

1 just observe what is being done.

2 But as we point out in our testimony as
3 well as rebuttal testimony, the critical issue is
4 not to observe what is being done. The critical
5 issue is to establish -- in addition to seeing
6 what's being done, the critical issue is to
7 establish how long it takes for various tasks,
8 observing how long it take to travel from point --
9 observing how long from Point A to Point B is not
10 the issue. The issue is --

11 Q. Doctor, if I could just --

12 DR. AUGUST ANKUM: Well --

13 Q. My question was going to what you meant in
14 your testimony about audit. And that meaning of
15 the term audit, that more extensive proceeding,
16 have you or, Mr. Morrison, have you performed that
17 type of audit as part of your work in this
18 proceeding?

19 DR. AUGUST ANKUM: No.

20 Q. Mr. -- or, excuse me, Dr. Ankum, do you
21 recall testifying in Indiana about time and motion
22 studies?

1 DR. AUGUST ANKUM: Yes.

2 Q. Okay. Would you agree, Dr. Ankum, that in
3 a time and motion study it's highly likely that
4 you're going to inject bias into the process?

5 DR. AUGUST ANKUM: I think with the time and
6 motion studies, with the exercise that SBC went
7 through, one should always be alert that there is a
8 potential for bias. So the answer is, yes, in
9 part. On the other hand --

10 Q. Thank you, Dr. Ankum.

11 DR. AUGUST ANKUM: Well --

12 MR. TOWNSLEY: Mr. Sullivan, if you could please
13 let the witness complete his answers, we can save
14 ourselves some time on redirect and --

15 JUDGE HAYNES: Let him finish his answer.

16 DR. AUGUST ANKUM: The purpose of constructing
17 valid time and motion studies is to be alert for
18 potential biases, but then the time and motion
19 studies to guard against the potential biases and
20 filtered them out.

21 BY MR. SULLIVAN:

22 Q. I want to be clear on -- that I understand

1 your testimony with regard to the issue of the
2 potential bias of SBC subject matter experts.

3 Are you in any way, anywhere in your
4 testimony, suggesting that the SBC SMEs have
5 provided false information in order to inflate CLEC
6 costs?

7 DR. AUGUST ANKUM: I think my testimony can be
8 read as such. Strictly speaking I'm saying that
9 the potential for bias exists, and SBC has not
10 provided the backup information that we need to
11 determine whether the bias actually slipped into
12 the time estimates or not. We simply can't
13 determine that.

14 Q. So, Dr. Ankum, you do believe that your
15 testimony can be read as an accusation that SBC
16 subject matter experts provided false information?
17 Did I hear you correctly?

18 DR. AUGUST ANKUM: I think one can read my
19 testimony and think that I'm suggesting that. If
20 you read it carefully, I don't anywhere in the
21 testimony make that explicit accusation that I
22 clearly suggest to the Commission that the

1 Commission should be alerted to that.

2 Q. And as you sit here, you're not accusing
3 SBC SMEs of providing false information?

4 DR. AUGUST ANKUM: I haven't reached that issue
5 since I don't have the information to determine
6 either way.

7 Q. And, Mr. Morrison, are you making that
8 accusation either in your testimony or here today?

9 MR. SIDNEY MORRISON: No, I'm not making the
10 accusation that those masses are actually there.
11 Only that the potential for those biases exist.

12 Q. Thank you.

13 Now, Mr. Morrison, one of the aspects of
14 this potential bias issue is your belief that job
15 security of the subject matter experts may depend
16 on them giving certain inflated activity times?

17 Do I characterize your testimony correctly?

18 MR. SIDNEY MORRISON: Yes, that's probably a
19 fair characterization. The incentive for bias
20 is -- become almost peripheral motive to the SME
21 because of the SMEs relationship with jobs that
22 have been done. People that do the jobs and all

1 the management tasks revolve around those
2 particular jobs. So there are a number of reasons
3 that bias can be thrown in the process for good
4 reason on part of a SME.

5 Q. Mr. Morrison, if you could turn to Page 39,
6 Lines 958 and 959. And there you talk, don't you,
7 about the perception by SMEs that SBC's competitors
8 might be a direct threat to their job security. Do
9 you see that?

10 MR. SIDNEY MORRISON: Yes, I see that.

11 Q. Mr. Morrison, are you -- did you review the
12 testimony of SBC's witnesses who addressed
13 nonrecurring costs?

14 MR. SIDNEY MORRISON: Yes, I did.

15 Q. Did you review Mr. Christensen's testimony?

16 MR. SIDNEY MORRISON: Yes, I did.

17 Q. And based on your experience and your
18 background with telecommunications work, are you
19 familiar with the tasks that Mr. Christensen's work
20 group performs?

21 MR. SIDNEY MORRISON: Yes.

22 Q. Can you explain to me how the subject

1 matter expert working in Mr. Christensen's work
2 group would perceive SBC's competitors as a direct
3 threat to their job security?

4 MR. SIDNEY MORRISON: The competitors are
5 basically the work that they particular work group
6 deals with on day-by-day basis. So the
7 over-arching view of that group is that's basically
8 100 percent what they do. The more of it,
9 perceptively, the better off they could potentially
10 be.

11 However, in the world of unintended
12 consequences, we can get into the fact that the
13 CLEC becomes a threat to the ILEC, may produce
14 positive results in their organization but negative
15 results in other organizations, which tends to take
16 the company apart and drive it into economic
17 discertainties, which Dr. Ankum is much more
18 prepared to talk about than I am. And can, in
19 fact, have unintended consequences if they don't
20 necessarily view as positive for their existence.

21 Q. So if I understand you correctly,
22 Mr. Morrison, with respect to Mr. Christensen's

1 work group, CLEC competition might increase the
2 amount of work that their group does but might have
3 a negative impact on SBC in general, which they may
4 perceive as a threat to their job security?

5 Did I characterize your -- did I
6 understand your testimony?

7 MR. SIDNEY MORRISON: That's a fair
8 characterization.

9 Q. Now are you familiar, Mr. Morrison, based
10 on your experience in the telecommunications field
11 with the work that Ms. Gomez McKeans work group
12 does?

13 MR. SIDNEY MORRISON: Provisioning group?

14 Q. Yes.

15 MR. SIDNEY MORRISON: Yes.

16 Q. And can you explain how a subject matter
17 expert in Ms. Gomez McKeans work group -- well,
18 would the -- would your answer be the same for
19 Ms. Gomez McKeans work group as it was for
20 Mr. Christensen's work group?

21 MR. SIDNEY MORRISON: Very much so. I think
22 that in the case of both groups, they much rather

1 be doing -- performing the work for -- in totality
2 for their own companies as opposed to a competitor.

3 Q. Well, Mr. Christensen's work group doesn't
4 do any work for SBC's own customers. It does only
5 CLEC work; right?

6 MR. SIDNEY MORRISON: That's correct.

7 Q. Ms. Gomez McKeans work group does
8 provisioning work and they do it for CLECs and for
9 SBC's own end user customers; is that correct?

10 MR. SIDNEY MORRISON: That's my understanding.

11 Q. Okay. And are you familiar with
12 Mr. Cunningham's testimony?

13 MR. SIDNEY MORRISON: Refresh me. I've lost --

14 MR. TOWNSLEY: Was this adopted?

15 MR. SULLIVAN: No. He was waived, but that's
16 okay. I don't want to force you to recollect
17 something that, you know, you don't recollect.
18 That's fine.

19 At Page 39 and 40 -- well, in
20 particular, I want to draw your attention to a
21 phrase on Line 976 of Page 40. Mr. Morrison, your
22 testimony refers to related job loss?

1 MR. SIDNEY MORRISON: Which line?

2 Q. That's Line 976, Page 40. It's a carry
3 over sentence from 39.

4 MR. SIDNEY MORRISON: Okay. Yes.

5 Q. The phrase, related job losses there, is
6 that the same sort of concept that you spoke of a
7 few minutes ago about CLEC competition generally
8 being perceived as not good for SBC as a whole?

9 MR. SIDNEY MORRISON: That would be the
10 perception that I hear constantly, not necessary
11 only in SBC. Probably less than SBC because I have
12 little contact with it, but with other ILECs.

13 Q. Could you turn to Page 27.

14 Dr. Ankum, I have a couple questions for
15 you.

16 DR. AUGUST ANKUM: I'm there.

17 Q. Actually, if you could turn to Page 28.
18 You list a couple principals. I want to ask you
19 about Principal No. 3.

20 You'd agree with me that technology
21 should incorporate up-to-date business processes
22 under TELRIC; is that right?

1 DR. AUGUST ANKUM: Generally, yes. And if you
2 understand up-to-date to mean forward-looking most
3 efficient, yes.

4 Q. And that's forward-looking most efficient
5 technologies that exist today; is that correct?

6 DR. AUGUST ANKUM: Yes, technologies that are
7 available. They don't necessarily need to be
8 implemented, just that technology should not be pie
9 in the sky.

10 Q. It's something that needs to be available
11 to the ILEC, though?

12 Whether ILECs are using ubiquitously,
13 it's something that the ILEC must be able to go out
14 and gather or develop on its own?

15 DR. AUGUST ANKUM: Yes.

16 Q. And those technologies, in your view,
17 include an efficient OSS process?

18 DR. AUGUST ANKUM: That's part of it, yes.

19 Q. Are you familiar with the OSS
20 collaboratives that SBC participates in with some
21 of the CLEC community?

22 DR. AUGUST ANKUM: Somewhat, but I have not

1 participated in it myself.

2 Q. Okay. Are you aware of what the purpose of
3 those collaboratives is?

4 DR. AUGUST ANKUM: I believe that the genesis of
5 those collaboratives goes back in large part to the
6 anticipation of 271 applications and the setting up
7 of standards and making sure that the CLECs and
8 ILECs interface in a way that these can be met.

9 Q. And is it your understanding that these
10 collaboratives solicit input from both ILECs and
11 CLECs in the development of performance measures
12 and development of OSS enhancement?

13 DR. AUGUST ANKUM: Yes.

14 Q. Mr. Morrison, in Indiana we talked about
15 development of front ends ordering systems that
16 allowed an ILEC to design a system which would
17 capture all front end errors; do you recall that?

18 MR. SIDNEY MORRISON: You're talking about
19 ordering process?

20 Q. Yes.

21 MR. SIDNEY MORRISON: Yes, I recall that.

22 Q. In your experience, are you aware of any

1 ILEC that has, in fact, developed a system that
2 catches -- that captured all front end errors?

3 MR. SIDNEY MORRISON: I wouldn't use the term
4 captures all front end errors, but I would refer
5 you to some examples that we use in our testimony
6 about an E-system that four specific orders types
7 does capture approximately 99 percent, I believe it
8 is, of order errors.

9 Q. It captures 99 percent of the front end
10 order errors; is that what you're understanding
11 of --

12 MR. SIDNEY MORRISON: I believe that's the term,
13 yes.

14 Q. Were you present yesterday for
15 Mr. Christensen's testimony?

16 MR. SIDNEY MORRISON: Parts of it.

17 Q. Were you present when he discussed the fact
18 that SBC's service ordering system captures 4800
19 different error reasons as part of its front end
20 ordering process?

21 MR. SIDNEY MORRISON: Yes, I caught that part.

22 Q. And did you -- were you also present when

1 he testified that there were 14 errors that are not
2 captured by SBC's front end ordering process?

3 MR. SIDNEY MORRISON: Yes, I heard that.

4 Q. Based on your telecommunication experience,
5 are you aware of any ordering system that achieves
6 a better front end error capture rate than what
7 Mr. Christensen describes?

8 MR. TOWNSLEY: I guess I'm going to object to
9 the form of the question. Can you please clarify.
10 Are you assuming -- does your question assume that
11 that captures -- that there's an entire universe of
12 errors that can exist and there's only 14 errors
13 that SBC's OSS systems can capture?

14 BY MR. SULLIVAN:

15 Q. Mr. Morrison, did you understand the
16 question?

17 A. Yes, I understand the question. The 4800
18 auto-detects refer the order back to the
19 originator. That's pretty a granular process when
20 look at the relative numbers, which considers the
21 number of failures that fall into the 14 separate
22 buckets that make up the 14 separate categories for

1 processing downstream that suddenly become part of
2 the manual intervention process.

3 If you have 14 very large non-granular
4 buckets, so to speak, then somebody better be
5 taking the bucket and cutting it up into smaller
6 cups and identifying the volumes in the smaller
7 cups and push it back so that eventually you have
8 1400 different ones. New codes that revert back to
9 the originator and a lesser number falling into the
10 buckets, so your end of the stick.

11 Q. And as you sit here today, you don't know
12 whether the 4800 front end that Mr. Christensen
13 talked about are more or less granular in detail
14 than the 14 error situations that he talked about;
15 is that right?

16 MR. SIDNEY MORRISON: No. I don't have -- I
17 haven't seen any statistics on that; but logic
18 tends to tell you if he's looking at 10, 15, 20
19 percent, whatever percent of fallout that false
20 into the LSC, then those 14 categories have to be
21 somewhat less granular than the previous 4800.

22 Q. If I could turn your attention to the

1 Page 33 of your direct testimony. Beginning at
2 Line 837, there's a discussion of work flow
3 engines. Do you see that, Mr. Morrison?

4 MR. SIDNEY MORRISON: Yes, I do.

5 Q. Do you have a particular work flow engines
6 in mind that you believe SBC should be utilizing?

7 MR. SIDNEY MORRISON: No, because of the
8 asymmetric information that I have about SBC's OSS,
9 I couldn't sit here and actually recommend that
10 very specific product.

11 But what I would recommend and what you
12 find that you can do is go to the marketplace to
13 any number of software vendors and start talking in
14 terms of flow engine, work flow manager,
15 declaration software, and you'll start to come up
16 with vendors that'll start looking at your process.

17 And not far down the road, you'll have
18 bidders making commitments. It's not a situation
19 where there's a single shrink-wrap package that you
20 go out and rip off the shelf, plug into your
21 systems and fly.

22 Q. It's something that needs to be developed

1 in conjunction -- in consultation with a vendor and
2 the parties seeking the work flow engine?

3 MR. SIDNEY MORRISON: Yeah, like the vast number
4 of systems that you have, there are certain
5 customization that goes on to the customer.

6 Q. If you could turn to Page 5 and 6 of your
7 rebuttal testimony.

8 DR. AUGUST ANKUM: Which page?

9 Q. 5 and 6. Well, it's Exhibit 1.1. I think
10 it's label surrebuttal testimony. Just so we're on
11 the same page, it was the testimony you filed on
12 February 20th.

13 DR. AUGUST ANKUM: Yes.

14 Q. Dr. Ankum, am I correct that if I have a
15 question that relates to the question that begins
16 on Page 5, Line 94, that you're the right person to
17 ask that to?

18 DR. AUGUST ANKUM: Yes.

19 Q. Okay. There, Dr. Ankum, you talk about the
20 Virginia arbitration order beginning at Line 106 of
21 Page 5?

22 DR. AUGUST ANKUM: Yes.

1 Q. And you refer to that as a decision by the
2 FCC; is that right?

3 DR. AUGUST ANKUM: I met a few -- FCC is
4 shorthanded. It is, of course, the FCC wire line
5 competition bureau, which is part of the FCC.

6 Q. And if you don't know the answer, you know,
7 feel free to say so; but do you have an
8 understanding as to what the precedential value of
9 decisions by the wire line competition bureau is?

10 MR. TOWNSLEY: I object. It calls for a legal
11 collusion.

12 MR. SULLIVAN: I asked him for his understanding
13 and I think I prefaced it that --

14 DR. AUGUST ANKUM: Obviously, I can't give you a
15 legal opinion, but I think anybody watching the FCC
16 staff to see where the FCC staff comes out on the
17 TELRIC.

18 And, of course, we also have a TELRIC
19 notice of proposal, making out -- being evaluated
20 by the staff, and the staff had a -- the FCC staff
21 had an input into the local competition order.
22 Clearly when the staff finally is confronted as it

1 was Virginia, it made the decision themselves,
2 getting all the input and typically doing -- and
3 also proposed the rulemaking. They don't get the
4 detailed information that they get, for example,
5 that the ICC gets; but in the Virginia case, they
6 did.

7 I think that the decision by the FCC
8 staff clearly is not -- I don't know what it means
9 as a legal precedent, but I think any economist
10 looking at the Virginia order is looking at it with
11 an eye for what the FCC staff thinks that TELRIC is
12 and how nonrecurring charges, I think is really
13 pertinent. If I were a commission and commission
14 staff, I would clearly go to -- virtually every
15 commission has done, they've all gone to the
16 Virginia order. We, of course, need as part of our
17 activities with various commission staffers and all
18 of them have read the Virginia order.

19 Q. And you've met with all 50?

20 DR. AUGUST ANKUM: No, but --

21 Q. And you don't really want to testify that
22 every single state commission has gone to the FCC

1 Virginia arbitration order?

2 DR. AUGUST ANKUM: Are you mocking me?

3 Q. I just want to be clear that your testimony
4 is not actually. . .

5 A. No.

6 Q. Thank you.

7 If we turn to page -- just give me one
8 moment.

9 At Page 6 and 7 at several different
10 instances you talk about classification of
11 activities as recurring versus nonrecurring costs.
12 You could see where I'm talking about. I have
13 specific line references, but it's throughout the
14 paragraph that starts on Page 6 and goes over to
15 Page 7.

16 DR. AUGUST ANKUM: Yes.

17 Q. Do you see that?

18 DR. AUGUST ANKUM: Yes.

19 Q. Just so that I understand your testimony,
20 when you talk about the Virginia arbitration order,
21 is it your understanding that that order says that
22 these costs should be treated as nonrecurring cost

1 or that they should be recovered through -- well,
2 let me try that again.

3 Do you understand the Virginia order to
4 say that these costs are recurring costs, not
5 nonrecurring costs, or that they should be
6 recovered through recurring charges rather than
7 nonrecurring charges?

8 DR. AUGUST ANKUM: I believe that the FCC speaks
9 in terms of cost of nonrecurring activities. And
10 when we hear that, our mind probably leaps to the
11 activities that we see in the cost studies here,
12 recurring costs studies. But, of course, included
13 in that, of course, is also the cost of a
14 nonrecurring activity associated with making a loop
15 plan investments or an investment in a switch.

16 I mean, the majority of the investments
17 in a telecom network are of a nonrecurring nature.
18 Now, the question is, which one of those costs do
19 you put in the recurring buckets versus the ones
20 that you put in the nonrecurring bucket.

21 I believe that much of the argument is
22 in this case about which bucket should we put

1 things in. I believe that SBC has front load them
2 and put it incorrectly in the nonrecurring bucket.
3 The nonrecurring bucket, I mean the nonrecurring
4 charges.

5 Q. Okay. The last -- not the last. I want to
6 talk to you about travel times. And, Dr. Ankum, am
7 I correct that the part of your testimony that
8 deals with travel times was is -- was drafted by
9 you as posed to Mr. Morrison?

10 DR. AUGUST ANKUM: I might have been sitting
11 behind the typewriter, but we were sitting in our
12 hotel room trying to figure out in the complete
13 absence of any information that SBC had proposed to
14 us. And I am talking to my expert here and saying,
15 Well, Sid --

16 MR. SULLIVAN: Your Honor --

17 DR. AUGUST ANKUM: I'm just explaining --

18 MR. SULLIVAN: I'm going to move to strike his
19 answer. I just asked him whether it's something I
20 should -- whether it was something that he drafted
21 or they drafted together.

22 MR. TOWNSLEY: And I think he's trying to

1 explain that. Mr. Sullivan, if you let him answer,
2 I think you might be satisfied with the answer he's
3 going to give you.

4 MR. SULLIVAN: Your Honor, he's answering by
5 just rehashing and making speeches about things
6 that are already in this testimony, and I don't
7 think it serves any of us to permit him to go
8 beyond the scope of my question to --

9 JUDGE HAYNES: Let's move on to the next
10 question.

11 MR. SULLIVAN: Thank you.

12 BY MR. SULLIVAN:

13 Q. If you could turn to Page 111.

14 JUDGE HAYNES: Which testimony?

15 MR. SULLIVAN: Of the direct testimony.

16 BY MR. SULLIVAN:

17 Q. There you depicted -- you have a diagram
18 that's entitled Depiction of Average Travel
19 Situation. Am I correct that as part of your
20 analysis you're assuming an average loop length of
21 2.4 miles?

22 DR. AUGUST ANKUM: Roughly, yes.

1 Q. And you use that to assume that the average
2 distance traveled is 2.4 miles in that diagram?

3 DR. AUGUST ANKUM: Within the purposes of this
4 example, yes.

5 Q. And if I -- later on Page 114, you have a
6 diagram that contemplates more than one activity
7 being performed; is that correct?

8 DR. AUGUST ANKUM: More than one job.

9 Q. I'm sorry, more than one job on -- a
10 technician will leave his starting point, proceed
11 to a number of different locations, perform work
12 and then return to a starting point?

13 DR. AUGUST ANKUM: Yes.

14 Q. And that's what you're trying to depict in
15 paragraph -- in the diagram on Page 114?

16 DR. AUGUST ANKUM: Yes.

17 Q. Now, for purposes of the analysis that you
18 did on Page 114, does it matter to you whether the
19 technician starts his day and ends his day at a
20 central office versus a garage versus his own home?

21 DR. AUGUST ANKUM: Not necessarily. I mean, the
22 point is to lay out a possible travel pattern and

1 to see, given sort of reasonable assumptions, what
2 average travel time you come up with.

3 And even though the technicians may not
4 start from a central office, we were reasoning,
5 even if the technician doesn't, but let's assume
6 for a moment that the technician always has an
7 option, as they do, to go to a central office,
8 which may not be the shortest route because they
9 could be going directly to a work site. But let's
10 assume for a moment they do go to a central office,
11 then what will be the travel times?

12 Q. And if you did this analysis, that's
13 reflecting the diagram on Page 114, and instead of
14 having the central office be a starting point, you
15 have a maintenance garage or a technician's home,
16 you wouldn't expect your results to -- of what an
17 average travel time would be to change; is that
18 right?

19 DR. AUGUST ANKUM: Well, if you change the
20 assumptions, then, obviously, travel times would
21 change. And I suppose that's the invitation we
22 made to SBC by laying out some of the variables

1 that would go into travel times as opposed to
2 saying, Well, it's 25 minutes or 30 minutes. And I
3 throw up my hands. We're saying, Well, let's see,
4 what sort of variables that are involved. How many
5 jobs do you do? How many jobs do you do in a day?
6 Where you do you depart from? What is the length
7 in between jobs.

8 So laying out the variables, you made an
9 invitation to SBC to come back and complete the
10 analysis. And, of course, we were disappointed.

11 **Q.** In your diagram on Page 114, that analysis
12 assumes that the starting point and ending point is
13 the central office. If you assume that it was a
14 garage, do you have an opinion as to whether the
15 average travel time would be higher or lower, or do
16 you not have an enough information to determine
17 that?

18 DR. AUGUST ANKUM: It could be higher or lower
19 depending on where the garage is located relative
20 to the various jobs.

21 **Q.** Same answer for, if the technician starts
22 from his own home?

1 DR. AUGUST ANKUM: Yes.

2 Q. Now, in your table on Page 115, you go
3 through a mathematical calculation -- you go
4 through some calculations to come up with an
5 average travel time. I want to focus on the
6 assumption that is contained in Line 2, the length
7 of in between segments. You have assumed that the
8 length of in the between segments is 1.2 miles?
9 How did you come up with that number?

10 DR. AUGUST ANKUM: That number is, roughly
11 speaking, half of the loop length. The notion
12 being that the technician does not go back every
13 time to the central office but rather it will --
14 technicians will generally operate within certain
15 quadrants.

16 And Mr. Morrison has supervised
17 technicians for precisely these type of activities.
18 But if the central office wire center can be broken
19 up in quadrants, and if the loop length is 2.4
20 miles, you have a number of jobs you begin to
21 travel within that quadrant. We have roughly
22 assumed that going from job to job that the travel

1 distance is half the length of the total, which
2 then is 1.2 miles.

3 Q. So one of the assumptions that you made in
4 your analysis that's reflected in the diagram on
5 114 and the table on 115, is that the technician
6 will operate in a quadrant of the serving area of
7 the central office that he's associated with or
8 she's associated with?

9 DR. AUGUST ANKUM: It may not necessarily be the
10 quadrant of one wire center, but my understanding
11 is -- and you can ask Mr. Morrison about --
12 actually, let me hand this off to Mr. Morrison who
13 really gave -- this is a joint product and the
14 input on how technicians are dispatched came from
15 Mr. Morrison.

16 MR. SIDNEY MORRISON: Yeah, the point on how the
17 dispatch and how an effort is made to minimize the
18 travel time for a technician is a relatively simple
19 process.

20 In a provisioning process, there is a
21 dispatch or load control. Sometimes they're called
22 dispatchers, sometimes they're called loaders. In

1 today's world, you use some very exotic software
2 that is designed to -- and the manual efforts are
3 designed to minimize that travel.

4 What these loaders do, what the software
5 does, it takes into consideration all the addresses
6 that the technicians have to visit from the package
7 of work that they have that day. And the package
8 of work for each individual technician is designed
9 such that these addresses, locations fall within a
10 small cluster that you could possibly force it into
11 such that you can -- once you've identified the
12 addresses, then you can quickly develop little out
13 limit that says, okay, go to this one first, this
14 one second, third and so forth on down through the
15 load.

16 What it does is compress all the travel
17 time on the effort that goes into that for the
18 technician and benefit of the technician.

19 **Q.** And the 1.2 miles that you gentlemen have
20 assumed for the length of the in between segments,
21 does that assume that all the jobs that are
22 assigned to the technician occur in one quadrant,

1 one central office?

2 DR. AUGUST ANKUM: I think I just answered that
3 question previously. I think you asked the exact
4 same question, and I know that that's not
5 necessarily within the same wire center but roughly
6 within the same geographic area. That is roughly
7 the same size as that of a quadrant of a wire
8 center, but it could also bridge two wires centers.

9 Q. Okay. So underlying -- or one of the
10 assumptions that you made in your analysis on
11 Page 114 and 115, is that the technician will cover
12 an area about equal to one-fourth of the area
13 covered by a central office, bearing in mind that
14 there might be overlap in the adjoining central
15 offices and things like that; but the approximate
16 size is one-quarter of the area served by a central
17 office?

18 DR. AUGUST ANKUM: Yeah. My understanding from
19 talking to Mr. Morrison is that it will depend on
20 what geographic location you're talking about.

21 In an area like Chicago where you have a
22 much denser population and the wire centers are

1 geographically smaller than you may find in a rural
2 area, you have will have different -- the question
3 of whether you operate at one quadrant versus in
4 overlapping quadrants will be answered differently
5 because you have a different situation.

6 And, again, this goes to illustrate the
7 enormous complexity that underlies an analysis of
8 travel times and why you just can't pick out of the
9 blue a number without giving people any support at
10 all.

11 **Q.** Have you performed any time and motion
12 studies of the travel times associated with any of
13 the cost studies in this case?

14 DR. AUGUST ANKUM: No, we have not.

15 **Q.** Mr. Morrison, in order to perform a time
16 and motion study of travel times, would you need
17 access to SBC's physical facilities?

18 MR. SIDNEY MORRISON: To do an actual real-world
19 time and motion study on travel to be very specific
20 to SBC's circumstances, yes, you would have to have
21 access to SBC or at least access to a lot of
22 critical information if it's even kept.

1 Q. For instance, you need to know where the
2 central offices are located?

3 MR. SIDNEY MORRISON: That would be one of the
4 things, yeah.

5 Q. And you need to know locations of their
6 customers?

7 Or what other -- I mean -- well, let me
8 step back.

9 Would you actually need to enter an SBC
10 facility to conduct the time and motion study, or
11 are you just saying you would need some information
12 to figure out how long it takes from a central
13 office to some other point?

14 MR. SIDNEY MORRISON: I think that the first
15 thing you have to do is establish some parameters
16 that -- you almost have to do a time and motion
17 study specifically to that.

18 And then have the time and motion study
19 off basically SBC and say, Either you run it or
20 I'll run it. The preference would be that I run
21 it.

22 Q. Well, what about the time and motion study

1 would require anybody to enter into a -- to enter a
2 central offices facility or any other SBC facility?

3 MR. SIDNEY MORRISON: The travel is not done
4 within a facility.

5 Q. Right. So why -- so you wouldn't need to
6 get --

7 MR. SIDNEY MORRISON: No, I don't need to go
8 inside the door, no.

9 Q. Yeah, you just -- you know, there's a
10 central office down the street. You drive your
11 truck. You go to some point. You don't need to go
12 into any facility. You could do that just as well
13 as someone from SBC could do that; right?

14 MR. SIDNEY MORRISON: That's right.

15 Q. Okay. Dr. Ankum, do you have a view as to
16 whether this commission should assume for purposes
17 of determining appropriate activity times whether
18 the work is being performed by technicians of
19 average experience and efficiency?

20 DR. AUGUST ANKUM: Yes.

21 Q. And is it your view that the commission
22 should assume that the work is performed by a

1 technician of average efficiency and experience?

2 DR. AUGUST ANKUM: In addition to -- and I
3 believe this goes back to the exchange we had in
4 Indiana -- that these technicians have to operate
5 in environment for a forward-looking, optimally,
6 efficient processes and technologies in place, and
7 I think that's the critical qualifier.

8 Q. So assuming those processes are in place,
9 the commission should look toward technicians of
10 average experience and efficiency in order to
11 determine the appropriate activity time?

12 DR. AUGUST ANKUM: Yeah, and eliminate
13 technicians, for example, that fall way below the
14 average experience. For example, trainees.

15 MR. SULLIVAN: Thank you, Dr. Ankum. Thank you,
16 Mr. Morrison.

17 That's all I have.

18 DR. AUGUST ANKUM: Thank you.

19 MR. SIDNEY MORRISON: Thank you.

20 JUDGE HAYNES: Does staff have cross?

21 MR. HARVEY: Staff does not.

22 JUDGE HAYNES: Redirect?

1 MR. TOWNSLEY: May I have just a minute.

2 JUDGE HAYNES: Okay.

3 MR. TOWNSLEY: I have just a couple of
4 questions.

5 REDIRECT EXAMINATION

6 BY

7 MR. TOWNSLEY:

8 Q. Mr. Morrison, you were asked some questions
9 by Mr. Sullivan about whether would you need access
10 to SBC facility to do time and motion study. Do
11 you recall those questions?

12 MR. SIDNEY MORRISON: Yes, I do.

13 Q. And can you tell me whether you would, in
14 fact, need access to facilities to be able to do
15 those kind of motion studies if you were to do them
16 properly?

17 MR. SIDNEY MORRISON: The facilities that you
18 would, in fact, need access to are vehicles that
19 installers travel in, the locations that they go to
20 to do their work.

21 It may, in fact, be an outside facility
22 of some sort; but, in fact, it probably is cabinet

1 or terminal, a hut that you have to have access to.
2 You would need access to the detailed information
3 in the form of the service request and final
4 service order product that the technician works
5 with.

6 To acquire all of that data would mean
7 that you, in fact, have to have access to a certain
8 level of SBC's facilities.

9 Q. And can you tell me what kind of facilities
10 you need to access in order to be able to do a time
11 and motion study of, for example, the service
12 ordering process?

13 MR. SIDNEY MORRISON: Well, the service --

14 MR. SULLIVAN: Objection, your Honor. It goes
15 well beyond the scope of my cross.

16 JUDGE HAYNES: Sustained.

17 BY MR. TOWNSLEY:

18 Q. Can you tell me what kind of facilities
19 you'd need access to do time and motion studies
20 about travel time, for example?

21 MR. SIDNEY MORRISON: The facilities on travel
22 time are pretty much those that I just went

1 through. A facility in the form of vehicle that
2 the installer, for instance, is going to drive. A
3 facility that gives me access to the detail of the
4 service order, provision order that the technician
5 is using. The loading and routing mechanisms that
6 assemble the load that the technicians need.

7 That level of detail so that you know
8 that this package of orders that an installer is
9 going to be dispatched is, in fact, the most
10 efficient package of orders for that technician to
11 take the field and work in the most effective
12 manner and especially whether that is an aggregated
13 group of orders that allow us that low level
14 dispatching control over the technician.

15 So that would, in fact, require
16 different level of access to acquire at that type
17 of information.

18 **Q.** Mr. Sullivan asked you a question. I think
19 it may have been the first question he asked you,
20 is whether you had done any type of motion studies
21 since you had -- since we had circulated your
22 prefiled testimony in this case on May 6th, 2003.

1 MR. SIDNEY MORRISON: I just did a time and
2 motion study in the amount of time I've been on the
3 witness stand. My stopwatch quit.

4 Q. Did you -- were you able to do a time and
5 motion study for service ordering process?

6 MR. SIDNEY MORRISON: No, I haven't.

7 Q. And why not?

8 MR. SIDNEY MORRISON: I don't have access to the
9 facilities and means to accomplish that.

10 Q. Mr. Sullivan also asked you some questions
11 about -- that were directed to both you, Dr. Ankum,
12 and you, Mr. Morrison, about whether you were
13 accusing SBC subject matter experts of either lying
14 on providing false information that was fed into
15 the cost studies. Do you recall those questions?

16 DR. AUGUST ANKUM: Yes.

17 Q. Can you please tell me -- can you please
18 elaborate on whether you were accusing the SBC
19 subject matter experts of providing false
20 information.

21 DR. AUGUST ANKUM: I don't think that we have
22 made an accusation.

1 Q. Were you -- strike that.

2 DR. AUGUST ANKUM: The only purpose of
3 discussion and testimony both in the direct and
4 rebuttal was to point out to the commission that
5 if -- that the potential exists for bias, very
6 strong potential; that the FCC has recognized that
7 bias and, in fact, rejected Verizon's approach,
8 among other reasons, the potential bias.

9 And given that the bias -- a potential
10 bias exists, that if there was no support
11 information being provided, then neither the
12 commission nor any of the intervenors can determine
13 whether that bias actually occurred or not.

14 We simply don't have the information.
15 Just made up numbers out of the blue.

16 MR. TOWNSLEY: Thank you. I have no further
17 redirect.

18 JUDGE HAYNES: Recross?

19 MR. SULLIVAN: Very briefly.

20

21

22

1 RECROSS-EXAMINATION

2 BY

3 MR. SULLIVAN:

4 **Q.** Mr. Morrison, in order to do a time and
5 motion study, you don't actually need the SBC
6 vehicles to physically drive yourself or to have
7 your study participants drive; do you?

8 MR. SIDNEY MORRISON: You need certain access to
9 it if you're going to do an effective time and
10 motion study. With the installer, you really
11 should be riding inside the vehicle.

12 **Q.** If they drive Dodge minivans, Caravans, you
13 couldn't just rent one and use that?

14 MR. SIDNEY MORRISON: The installer is not with
15 me doing the driving; is he?

16 **Q.** Why do you need the installer to do a time
17 and motion study?

18 MR. SIDNEY MORRISON: He's as much a part of the
19 travel process as the van is.

20 **Q.** And is he any -- what expertise to the
21 driving process does he bring that, say, you or
22 Dr. Ankum doesn't bring?

1 MR. SIDNEY MORRISON: He knows the detailed
2 routes that he would take to get from address to
3 address. He's been in this geographic area
4 probably a large part of his career, certainly most
5 recently.

6 Typically, the way the installers work,
7 they know the geography. He knows the shortcuts.
8 He knows the back alleys. He knows the times to
9 avoid traffic. He knows the timing on the lights.
10 He knows a lot of detailed info that I don't know.
11 And he is a big piece of the time and motion study
12 on that travel time.

13 **Q.** And you couldn't subcontract someone else
14 who also drives in that same area on a regular
15 basis to perform the same tasks?

16 MR. SIDNEY MORRISON: Not unless we can
17 transplant the brain of the technician.

18 **Q.** So it's your view that driving a car from
19 Point A to Point B is so difficult that you cannot
20 replicate it without actually using the SBC
21 drivers; is that correct?

22 MR. SIDNEY MORRISON: The difficulty is not the

1 issue. It's the driver himself and the experience
2 and his background that he brings to that process.

3 Q. And it's -- and that aspects of his job is
4 so instrumental to driving from Point A to Point B
5 that you can't do a time and motion study without
6 actually having him behind the wheel?

7 MR. SIDNEY MORRISON: We can do a time and
8 motion study under a lot of circumstances. To what
9 level of accuracy you want this, I think that
10 would -- having the actual driver and the actual
11 vehicle he does and the actual area that he does
12 the jobs with his particular knowledge and skill
13 and background, brains to process the highest
14 degree of accuracy.

15 Q. And could you get an accurate time and
16 motion study by using some driver other than the
17 SBC driver?

18 MR. SIDNEY MORRISON: I personally don't believe
19 we could.

20 Q. And you couldn't do it by having, not his
21 Dodge minivan, but a rented Dodge minivan; is that
22 right?

1 MR. SIDNEY MORRISON: Well, the actual vehicle,
2 the color of the van or who owns it may not be the
3 big issue. But the fact that you have a van that
4 drives comfortably --

5 Q. Presumably, he's familiar with intricacies
6 of the car and, you know, he knows how far he can
7 go without gassing up, whether he can take a turn
8 tightly, whether he can accelerate, run through a
9 red light. I mean, isn't that also as important as
10 his particular brain knowledge of the alleys in
11 Chicago or wherever he's serving?

12 MR. SIDNEY MORRISON: Yeah, I think what you're
13 doing is describing the granulation of the time and
14 motion study that probably would have to be run.

15 Q. And then Mr. Townsley asked you about
16 performing time and motion studies for other
17 aspects other than travel. And he said that you
18 weren't -- you said you weren't able to do it
19 because you didn't have access to SBC's facilities.
20 Did I understand you right?

21 MR. SIDNEY MORRISON: Yes.

22 Q. Okay. Now, why couldn't you use a CLEC's

1 facilities?

2 MR. SIDNEY MORRISON: The particularly unique
3 set of information that we're looking for is a
4 representative sample for cost study of the work
5 task -- in this case, meaning service orders --
6 that this particular technician would use. And we
7 need to know of the universe of service orders
8 available to this technician from this particular
9 area, is this the most effective assembly of those
10 jobs to get the most efficiency out of your
11 technician, in this case, related to travel time.

12 Q. Well, and my question didn't relate to
13 travel times. It related to other aspects.

14 MR. SIDNEY MORRISON: Other aspects, you
15 would --

16 Q. Same answer?

17 MR. SIDNEY MORRISON: Very similar answer.

18 Q. So it is your opinion that you could not
19 run a time and motion study by using some similar
20 function that is existing in one of your CLEC
21 clients networks; is that right?

22 MR. SIDNEY MORRISON: Well, the CLEC client

1 wouldn't have the same -- what you're looking for
2 is a surrogate set of information.

3 Q. And the CLEC clients that you represent
4 don't have the surrogate set up?

5 MR. SIDNEY MORRISON: They would not be
6 representative of the same profile that the ILEC.

7 MR. SULLIVAN: I have no further questions.
8 Thanks.

9 JUDGE HAYNES: Any re-redirect?

10 MR. TOWNSLEY: Just one or two. I promise

11 REDIRECT EXAMINATION

12 BY

13 MR. TOWNSLEY:

14 Q. Mr. Morrison, Dr. Ankum, when you were
15 retained by your clients to provide testimony in
16 this proceeding, were you retained to do time and
17 motion studies?

18 DR. AUGUST ANKUM: No, we were not.

19 Q. And do you know why that is? Do you know
20 who carries the burden of proof in this case?

21 DR. AUGUST ANKUM: My understanding is as
22 follows: Even though we have in the past

1 recommended time and motion studies to -- in
2 particular, MCI and, in fact, that's has been
3 adopted by the Washington Commission on motion
4 studies. So they have been done.

5 But the burden of proof here, of course,
6 is on SBC. But besides that, as I have stated
7 earlier my testimony, the key is not so much to
8 observe a particular activity to make sure that
9 this is a statistically valid sample being
10 represented in the time and motion studies that may
11 not be relative to each and every activity, but to
12 a lot of the activities, the running of the cross
13 connects. Ms. Gomez McKeans, for example,
14 testified that the running of the cross connect can
15 vary between 50 to 150 of cable.

16 The moment you rate it you say, well,
17 sometimes it's 50 feet and sometimes it's 100 feet.
18 How did you rate that. If you're running hundreds
19 of thousands of cross connects, possibly millions,
20 are more of them 100 feet or are more of them 50
21 feet?

22 If you have don't backup information,

1 you can't possibly establish whether it was a
2 statistically valid sample. We've asked that and
3 the answer came back that Ms. Gomez McKeans is not
4 a statistician.

5 To do the time and motion study, you
6 need to have information about the service orders
7 that the service orders that SBC is provisioning.
8 You need very detailed information to determine
9 whether you are actually in your studies
10 representing a statistically valid sample; and if
11 you're not, then the entire time and motion study
12 can be thrown out. We simply don't have that
13 information.

14 MR. TOWNSLEY: Thank you. I have no further
15 re-redirect.

16 JUDGE HAYNES: Thank you, Dr. Ankum and
17 Mr. Morrison.

18 DR. AUGUST ANKUM: Thank you.

19 MR. SIDNEY MORRISON: Thank you.

20 MR. SULLIVAN: Thank you.

21 JUDGE HAYNES: We are continued till.

22 MR. TOWNSLEY: Didn't you guys have any cross?

1 MR. HARVEY: We did not.

2 JUDGE HAYNES: Okay. And tomorrow we're leaving
3 at 6:15; so if we have to skip lunch, we'll see.

4 MR. TOWNSLEY: Thank you very much.

5 JUDGE HAYNES: See you tomorrow at 9:00.

6 (Whereupon, further proceedings
7 in the above-entitled matter
8 were continued to March 19, 2004,
9 at 9:00 a.m.)

10

11

12

13

14

15

16

17

18

19

20

21

22